Mention the full qs statement for proper evaluation. Without that marks and grading is not possible Inshirah Hussain Name Assignment Greneral Science Atmospheric Pollution (Causes, Effects) Sir Majid Raza Topic Submitted To "Atmospheric Pollution A. Definition of Atmosphere:
It is a mixture of gases which surrounds the planet earth, called atmosphere.
B. Layers of Atmosphere: 1) Tropo sphere 2) Stratosphere 3) Mesosphere 1) Thermosphere 5) Exosphere C. Composition of Atmosphere: The overall composition of gases are 78%. Nitrogen, 21% oxygen and trace gases such as carbon dioxide, methane, neon, hydrogen gases ExosPhere Envelope of gases Thermosphere Mesosphere Earth Strataphere Tropusphene

Atmospheric Pollution: • According to World Health Organization It is about the situations in which the **i**) at mosphere contains pollutants in such concentration that remain harmful to the human health, plants, animals, micro organisms, aquatic life & to the environment, ii) Types of Pollutants: 1. Primary Air Pollutants: Pollutants which arises directly from their Sources (ALS, Car, Crenerator, Machines) and directly pollutes the atmosphere For example: CO2, SO2, SP, NO2, CO, CFCS. Secondary Air Pollutants: 2. Pollutants which arises from the primary air pollutants as a result of chemical reactions, For example: Acid vain, H, SO4, HAD

· Causes/Factors of Atmospheric Pollution: Combustion | Burning of fossil fuels: Fossil fuels are the nonrenewable energy resources. For example: Oil, Coal, Diesel, and Natural gases. Fuel burning in various types of vehicles. Motor vehicle, railway and aircraft is the major source of pollution and its contribution is 75%. In complete combustion and dissociation of CO2 at high temperature also give carbon monoxide. Iron, steel, petraleum and cement industries and brick kilns also emit carbon monoxide during burning process. The burning of fuel in internal compution engine also produce NO2. Nitrogen Oxides produced by the burning of coal, oil, natural gas and As per IPCC states the perentage of global emission by each sector Energy Sector: 35% of global emission Agriculture Sector: 251. (fertilizer industry, machinery equipments, the well, canal system

Industrial Sector, 21%. 2) Population Explosion: -US Census Bureau states the abapt increase of global pally population. · 1960 - 3 Billion population · 2022 - 8 billion Deputation Today more than 8 billion population. Population explosions is one of the major cause of atmospheric pollution. As number of population increases, human activities also increase. These human activities result in increased production urbanization, deforesta-tion, transport, industrialization, more solid waste which ultimately add pallutants into the air. Leave a line space between Massive Deadings for neatness 3) Deforestation is the permanent removal of trees from a forest. Making fuel, furniture paper making are the reasons of cutting down the trees so fast. Gilobal Forest Watch: More than to million heaters have been deforestated in the world due to the humans over the past 4 years only.

Keep the description of a single argument/reason brief

Forests and plantations are also known as carbon sinks (absorb CO2). Deforestation results in the decline of carbon sinks in opposite there are increased Sources of emissions of CO2 and CO resulting an imbalance in the carbon levels of atmosphere, Currently NOAA (Mational Oceanic and Atmospheric Administration) goots the release of CO, is 424 ppm parts per million which was 420ppm last year. 4) Rapid Urbanization. Ulbanization is a process in which increasing number of people within the cities. Whenever the urbanization happens, the city size increase, there is expansion, city also witnesses in frastructural development. United Nations Report: 541. was urban population in 2014. Currently, it is 60% urban population. The urban process boosts the construction s) Greneration of Salid Moste: Solid waste generation process also pollutes the air. Different types of waste produces different types of pallutants into

the air. For examples. Organic Wastes produces gases (CHy, Cor, NO,) which act as pollutants. More over salid waste is produced in different industries, domestic level, municipal , mining and institutional level at a great extend which turns to be unmanageble and disastrous for environment UNEP States: . 350 million tons of Plastic globally per year. 15 million tons of Plastic in 6) Ropid Industrialization:-There are various industries which emit gases that increase the pallutants in the . Thermal Power Industry emits COLOISOXINOX. Festilizer Industry emits (0, 10/014 Still Mills emits VDCs (Volatile Organic Compounds), SO, Textile Industry produces CO2/CO/ 50, Cement Paper Phorma emits (0,/NUX) (Dx

7) Weapons and Warfare: Testing of weapons of man destruction also add pollutants. Warfare usage also add Carbon dioxide, heat and toxins in the environment which cause atmospheric pollution. Electric Appliances: Electric Appliances such as ACs, Refri-8 generators etc are massively used at different levels such as domestic, industrial and institutional. Electric appliances produce Chloro fluorocarbons (CFCs) which are palluted the atmosphere. Eruption of Wildies: Global warming is the major cause of evoption of wildfires. Eroption of wildfires produces marsive amount of (0, CO, heat and Ash which cause atmospheric pollution. for example: Canadian wild fires (2023) Brazilian wild fires (2022) Turkish wild fires (2021) Volcanic Eruption: 10) Volcanic Eroption is the only natural factor that cause pollutants in the air.

Volcanic eruption produces heat, HCl, Ash, So, which cause atmospheric pollution. · Effects of Atmospheric Pollution: Effects On Plants: Atmospheric pollution cause multiple diseases in plants. i) Abscission: Sulphur oxides (SOx) and Ditric Oxides (NOx) slow down the process of the photosynthesis in the leaves which results in weakening, wilting and yellowing of plants ii) Chlorosis: Aerial pollutants get mixed in soil as a result necessary minerals don't get trans-mitted to the leaves. This results in the weakening of chlorophyll (the green pigment) in the leaves. Discolorization of Flowers: iii) Tropospheric ozone gas causes curling of petals and effect chromoplast (which gives color except green to the flowers). When pigment and calor is not developed in plants, it effects the process of pallination

and breed, Due to these multiple diseases of plants, plants gradually decay and ideath, x died. Aerial Leaves port of Plant Plant Tissue 2. (transport system) Roots 2) Effects on human health: Atmospheric pollution cause multiple health problems in humans. Asthma: a) Asthma is the respiratory tract disease "in" which causes inflammation in the airways. resulting in breathing problem. Pollutants which are present in the environment due to atmospheric pollution

cause inflammation in the air ways of the human respiratory tract. b) Lung Cancer: Dired chemical exposure such as heavy metals in the form of lead, arsenic, chromium, mercury result in lungs cancer. For example:-Afghanistan sees the heath consequences after 20 years war. Due to pollited atmosphere, people C) faces drowsiness, dizziness, blurred vision and reduction in supply of iblood x oxygen into the blood. According to World Health Organization (WHO): i) Due to air pollution, 6-7 million ii) In Pakistan, due to air pollution, average life expectency reduced up to 7 years.

> Nasal Cavity > Pharynx > Larynx Vachea > Bronchi ung -> Bronchiales Alveoli 3) Effects On Aquatic life and Micro organisms: When the aerial pollutants transfer to water baclies or soil under the action of rain fall cause degradation of habitats and tilling of micro-organisms. 4) Effects On Environment: i) Global Warming: Increased amount of carbon gases and tiny particles cause global marming. Colobal warming is the stow increase in the average temperature of the earth's atmosphere.

Ozone Layer Depletion: The ozone layer forms a thick layer in stratosphere, it protects our planet. Due to polluted atmosphere, ozone layer is ii) also affected badly. Acid Rain: iii) Acid vain is formed when oxides of nitrogen and sulphur combine with moisture in the atmosphere to make nitric and Sulfuric acids. Smog Formation: iv) Due to harmful pollutants, smog formation occurs. The location of smog formation is also of great concern especially for human health, as a good portion of its is produced within cities where large portions of the population live. Too lengthy for a single qs. This will badly affect your time management